

Ag. Waste Application and Excavated Ponds
Deuel County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
ArA: Arvilla-----	95	Very limited Filtering capacity Droughty	1.00 0.66	Very limited Deep to water	1.00
ArB: Arvilla-----	95	Very limited Filtering capacity Droughty	1.00 0.66	Very limited Deep to water	1.00
ArC: Arvilla-----	95	Very limited Filtering capacity Droughty	1.00 0.66	Very limited Deep to water	1.00
AvD: Arvilla-----	55	Very limited Filtering capacity Droughty Slope	1.00 0.66 0.37	Very limited Deep to water	1.00
Sioux-----	35	Very limited Filtering capacity Droughty Leaching limitation Slope	1.00 0.90 0.45 0.37	Very limited Deep to water	1.00
BaB: Barnes-----	90	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
BcB: Barnes-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Buse-----	25	Very limited Low adsorption Restricted permeability	1.00 0.50	Very limited Deep to water	1.00
BcC: Barnes-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Buse-----	25	Very limited Low adsorption Restricted permeability	1.00 0.50	Very limited Deep to water	1.00
BcE: Barnes-----	50	Very limited Slope Restricted permeability	1.00 0.50	Very limited Deep to water	1.00
Buse-----	35	Very limited Slope Low adsorption Restricted permeability	1.00 1.00 0.50	Very limited Deep to water	1.00
BeE: Barnes-----	35	Somewhat limited Restricted permeability Slope	0.50 0.37	Very limited Deep to water	1.00
Buse-----	25	Very limited Slope Low adsorption Restricted permeability	1.00 1.00 0.50	Very limited Deep to water	1.00
Southam-----	25	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation Salinity	1.00 1.00 1.00 0.40 0.01	Somewhat limited Slow refill Cutbanks cave Salty water	0.97 0.10 0.01

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
BgD: Barnes-----	40	Somewhat limited Slope Restricted permeability	0.63 0.50	Very limited Deep to water	1.00
Buse-----	25	Very limited Low adsorption Slope Restricted permeability	1.00 0.63 0.50	Very limited Deep to water	1.00
Svea-----	25	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.47 0.10
BkA: Barnes-----	70	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Svea-----	20	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.47 0.10
BkB: Barnes-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Svea-----	25	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.47 0.10
BmC: Barnes-----	40	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Svea-----	25	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.47 0.10
Buse-----	20	Very limited Low adsorption Restricted permeability	1.00 0.50	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
BnD: Barnes-----	50	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Svea-----	25	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.47 0.10
Buse-----	20	Very limited Low adsorption Restricted permeability Slope	1.00 0.50 0.37	Very limited Deep to water	1.00
Bp: Brandt-----	95	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Br: Brookings-----	95	Not limited		Very limited Deep to water	1.00
BtE: Buse-----	90	Very limited Slope Low adsorption Restricted permeability	1.00 1.00 0.50	Very limited Deep to water	1.00
BvE: Buse-----	55	Very limited Low adsorption Slope Restricted permeability	1.00 1.00 0.50	Very limited Deep to water	1.00
Barnes-----	30	Very limited Slope Restricted permeability	1.00 0.50	Very limited Deep to water	1.00
BxE: Buse-----	50	Very limited Slope Low adsorption Restricted permeability	1.00 1.00 0.50	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Lamoure-----	30	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.47 0.10
Ca: Castlewood-----	95	Very limited Restricted permeability Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.60 0.50	Very limited Slow refill Cutbanks cave	1.00 0.10
Cu: Cubden-----	95	Somewhat limited Depth to saturated zone Restricted permeability	0.84 0.50	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.07
DcA: Darnen-----	90	Not limited		Very limited Deep to water	1.00
DcB: Darnen-----	95	Not limited		Very limited Deep to water	1.00
Dv: Divide-----	90	Very limited Filtering capacity Depth to saturated zone Flooding	1.00 0.84 0.60	Very limited Cutbanks cave Deep to water	1.00 0.07
EcB: Eckman-----	90	Not limited		Very limited Deep to water	1.00
EgA: Egeland-----	60	Not limited		Very limited Deep to water	1.00
Embden-----	30	Not limited		Very limited Cutbanks cave Deep to water	1.00 0.90

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		Rating class and limiting features	Value	Rating class and limiting features	Value
EgB: Egeland-----	60	Not limited		Very limited Deep to water	1.00
Embden-----	30	Not limited		Very limited Cutbanks cave Deep to water	1.00 0.90
EsA: Estelline-----	95	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
EsB: Estelline-----	95	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
FeA: Fordville-----	95	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
FeB: Fordville-----	95	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
FgB: Fordville-----	60	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Renshaw-----	35	Very limited Filtering capacity Droughty	1.00 0.15	Very limited Deep to water	1.00
FmA: Forman-----	70	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Aastad-----	20	Somewhat limited Restricted permeability Depth to saturated zone	0.50 0.24	Somewhat limited Slow refill Deep to water Cutbanks cave	0.97 0.38 0.10

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
FmB: Forman-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Aastad-----	25	Somewhat limited Restricted permeability Depth to saturated zone	0.50 0.24	Somewhat limited Slow refill Deep to water Cutbanks cave	0.97 0.38 0.10
FtC: Forman-----	40	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Buse-----	25	Very limited Low adsorption Restricted permeability	1.00 0.50	Very limited Deep to water	1.00
Aastad-----	25	Somewhat limited Restricted permeability Depth to saturated zone	0.50 0.24	Somewhat limited Slow refill Deep to water Cutbanks cave	0.97 0.38 0.10
FtD: Forman-----	40	Somewhat limited Slope Restricted permeability	0.63 0.50	Very limited Deep to water	1.00
Buse-----	25	Very limited Low adsorption Slope Restricted permeability	1.00 0.63 0.50	Very limited Deep to water	1.00
Aastad-----	25	Somewhat limited Restricted permeability Depth to saturated zone	0.50 0.24	Somewhat limited Slow refill Deep to water Cutbanks cave	0.97 0.38 0.10

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Fx: Fossum-----	95	Very limited Filtering capacity Depth to saturated zone Leaching limitation Droughty	1.00 1.00 0.90 0.08	Very limited Cutbanks cave	1.00
Fy: Fulda-----	95	Very limited Restricted permeability Depth to saturated zone Leaching limitation	1.00 1.00 0.50	Very limited Slow refill Cutbanks cave	1.00 0.10
Hm: Hamerly-----	65	Somewhat limited Depth to saturated zone Restricted permeability	0.84 0.50	Somewhat limited Slow refill Cutbanks cave Deep to water	0.97 0.10 0.07
Badger-----	30	Very limited Restricted permeability Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Deep to water	1.00
HtA: Hegne-----	60	Very limited Restricted permeability Depth to saturated zone Runoff limitation	1.00 1.00 0.40	Very limited Slow refill Cutbanks cave	1.00 0.10
Fulda-----	30	Very limited Restricted permeability Depth to saturated zone Leaching limitation	1.00 1.00 0.50	Very limited Slow refill Cutbanks cave	1.00 0.10

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
KrA: Kranzburg-----	70	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Brookings-----	20	Not limited		Very limited Deep to water	1.00
KrB: Kranzburg-----	50	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Brookings-----	40	Not limited		Very limited Deep to water	1.00
KrC: Kranzburg-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Brookings-----	30	Not limited		Very limited Deep to water	1.00
La: La Prairie-----	95	Somewhat limited Flooding	0.60	Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
Ld: Ladelle-----	90	Somewhat limited Flooding	0.60	Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.47 0.10
Lm: Lamoure-----	95	Very limited Depth to saturated zone Flooding	1.00 0.60	Somewhat limited Slow refill Cutbanks cave	0.47 0.10
Lp: Lamoure-----	60	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.47 0.10

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
La Prairie-----	25	Very limited Flooding	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
Lr: Lamoure-----	60	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.47 0.10
Rauville-----	25	Very limited Depth to saturated zone Flooding Runoff limitation	1.00 1.00 0.40	Very limited Cutbanks cave	1.00
Lw: Lowe-----	90	Very limited Depth to saturated zone Leaching limitation Flooding	1.00 0.70 0.60	Very limited Cutbanks cave Slow refill	1.00 0.30
M-W: Miscellaneous Water-	100	Not rated		Not rated	
MdE: Maddock-----	90	Very limited Slope Filtering capacity Leaching limitation Droughty	1.00 1.00 0.45 0.03	Very limited Deep to water	1.00
Mg: Marysland-----	95	Very limited Depth to saturated zone Filtering capacity Leaching limitation Flooding	1.00 1.00 0.70 0.60	Very limited Cutbanks cave	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Mk: Mcintosh-----	65	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.01
Badger-----	25	Very limited Restricted permeability Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Deep to water	1.00
Mn: Mcintosh-----	65	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.01
Lamoure-----	25	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.47 0.10
Mr: Moritz-----	65	Somewhat limited Depth to saturated zone Flooding	0.95 0.60	Very limited Cutbanks cave Slow refill Deep to water	1.00 0.30 0.02
Lamoure-----	25	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.47 0.10
NsC: Nutley-----	55	Very limited Restricted permeability Slope	1.00 0.04	Very limited Deep to water	1.00
Sinai-----	35	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Od: Oldham-----	95	Very limited Depth to saturated zone Restricted permeability Leaching limitation	1.00 0.81 0.50	Somewhat limited Slow refill Cutbanks cave	0.97 0.10
Ok: Orthents, Gravelly--	95	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.71 0.45	Very limited Deep to water	1.00
Or: Orthents, Loamy-----	95	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Pa: Parnell-----	95	Very limited Restricted permeability Ponding Depth to saturated zone Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.97 0.10
Pc: Parnell-----	55	Very limited Restricted permeability Ponding Depth to saturated zone Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.97 0.10
Vallars-----	40	Very limited Depth to saturated zone Restricted permeability	1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
PeA: Peever-----	95	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
PeB: Peever-----	95	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Pg: Peever-----	65	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Cavour-----	25	Very limited		Somewhat limited	
		Restricted		Slow refill	
		permeability	1.00		0.98
		Salinity	0.50	Deep to water	0.90
Pm: Playmoor-----	90	Runoff limitation	0.40	Salty water	0.78
		Sodium content	0.18	Cutbanks cave	0.10
		Very limited		Very limited	
		Depth to saturated zone	1.00	Cutbanks cave	1.00
		Flooding	1.00	Salty water	0.50
PoC: Poinsett-----	95	Salinity	0.50	Slow refill	0.47
		Leaching limitation	0.50		
		Sodium content	0.08		
		Somewhat limited		Very limited	
PwA: Poinsett-----	70	Restricted permeability	0.50	Deep to water	1.00
Waubay-----	20	Not limited		Somewhat limited	
				Deep to water	0.90
				Slow refill	0.30
				Cutbanks cave	0.10
PwB: Poinsett-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Waubay-----	30	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
Rc: Rauville-----	95	Very limited Depth to saturated zone Flooding Runoff limitation	1.00 1.00 0.40	Very limited Cutbanks cave	1.00
ReA: Renshaw-----	95	Very limited Filtering capacity Droughty	1.00 0.15	Very limited Deep to water	1.00
ReB: Renshaw-----	95	Very limited Filtering capacity Droughty	1.00 0.15	Very limited Deep to water	1.00
RsB: Renshaw-----	60	Very limited Filtering capacity Droughty	1.00 0.15	Very limited Deep to water	1.00
Sioux-----	30	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.90 0.45	Very limited Deep to water	1.00
RtA: Rentill-----	90	Very limited Filtering capacity Restricted permeability	1.00 0.81	Very limited Deep to water	1.00
SbA: Sinai-----	90	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
SbB: Sinai-----	90	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
ShA: Singsaas-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Waubay-----	30	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
ShB: Singsaas-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Waubay-----	25	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
SkF: Sioux-----	65	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.90 0.45	Very limited Deep to water	1.00
Arvilla-----	30	Very limited Slope Filtering capacity Droughty	1.00 1.00 0.66	Very limited Deep to water	1.00
SnD: Sioux-----	55	Very limited Filtering capacity Droughty Slope Leaching limitation	1.00 0.90 0.63 0.45	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Renshaw-----	35	Very limited Filtering capacity Slope Droughty	1.00 0.63 0.15	Very limited Deep to water	1.00
So: Southam-----	95	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation Salinity	1.00 1.00 1.00 0.40 0.01	Somewhat limited Slow refill Cutbanks cave Salty water	0.97 0.10 0.01
SwA: Swenoda-----	95	Somewhat limited Depth to saturated zone	0.24	Very limited Deep to water	1.00
SwB: Swenoda-----	95	Somewhat limited Depth to saturated zone	0.24	Very limited Deep to water	1.00
Vc: Vallars-----	95	Very limited Depth to saturated zone Restricted permeability	1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
VrA: Vienna-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Brookings-----	30	Not limited		Very limited Deep to water	1.00
VtB: Vienna-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Brookings-----	30	Not limited		Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
VwC: Vienna-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Buse-----	30	Very limited Low adsorption Restricted permeability	1.00 0.50	Very limited Deep to water	1.00
VzB: Vienna-----	40	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Kranzburg-----	30	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Barnes-----	20	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
W: Water-----	100	Not rated		Not rated	
ZrC: Zell-----	60	Somewhat limited Slope	0.04	Very limited Deep to water	1.00
Eckman-----	30	Not limited		Very limited Deep to water	1.00

